

SAFETY DATA SHEETS (SDS)

Enviro Prime PW Part A



Hazard Identifiers

Version: 1

Issued by: EnviroSystems Technologies

Date of Issue: March 2018



SECTION 1 – IDENTIFICATION OF MATERIAL & SUPPLIER

- 1.1 Product Name:** Enviro Prime PW Part A
Manufacturer's Product Code: N/A
- 1.2 Recommended Use:** Part A of a two component, epoxy primer
- 1.3 Company:** EnviroSystems Technologies Pty Ltd
Address: 295 Princes Highway St Peters, NSW 2044.
Website: www.envirosystems.com.au
Telephone: +61 2 85958699 (business hours)
Fax: +61 2 85958660
- 1.4 Emergency Telephone:** Info Safe – 1800 638 556, Poisons Centre – 131126
- Other Information:** All information in this SDS is to the best of our knowledge at time of publication. Users of this product should fully review this SDS prior to use to ensure best safety practices. Further information and or clarification can be obtained by contacting our technical department on the above telephone number.

SECTION 2 – HAZARDS IDENTIFICATION

- 2.1 Hazard Classification:** Classified as **Hazardous** according to WHS Regulations, Australian GHS criteria and a **Dangerous Goods** according to the Australian Dangerous Goods Code.

Class	Category
Skin Corrosion/Irritation	2
Serious eye damage/eye irritation	2A
Skin Sensitization	1
Hazardous to the aquatic environment- chronic	2

- 2.2 Label Elements**



Signal word

Warning

H-code	Hazard Statements
H315	Causes skin irritation
H319	Causes serious eye irritation
H17	May cause allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
P-Code	Precautionary Statement - Prevention
P280	Wear protective gloves / protective clothing / eye protection / face protection
P260	Do not breath dust, mist or vapors
P273	Avoid release to the environment

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P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat drink or smoke when using this product
P264	Wash with plenty of water and soap thoroughly after handling
P-Code	Precautionary Statement - Response
P305, P351, P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P302, P352	IF ON SKIN: Wash with plenty of soap and water.
P333, P313	If skin irritation or rash occurs: Get medical advice/attention.
P337, P313	If eye irritation persists: Get medical advice/attention.
P362	Take off immediately all contaminated clothing and wash before reuse.
P-Code	Precautionary Statement - Storage
	Not Applicable
P-Code	Precautionary Statement - Disposal
P501	Dispose of contents / containers to hazardous or special waste collection point. In accordance with local regulation

2.3 Other Hazards

None known

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

See section below for Mixtures

3.2 Mixtures

CAS No.	Material	Content %
25068-38-6	bisphenol A/ diglycidyl ether resin, liquid	>60%
68609-97-2	Alkyl Glycidyl Ether	10-30%

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

General Advice:

Immediately remove contaminated clothing. If in danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to the own safety.

Ingestion:

Do not induce vomiting. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Inhalation:

Keep patient calm and remove to fresh air. Other measures are usually unnecessary.

Eye Contact:

While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Skilled personnel should only undertake removal of contact lenses after an eye injury. Seek medical attention without delay; if pain persists or recurs seek medical attention.

Skin Contact:

Flush contacted area thoroughly with soap and plenty of water, shower if available. Seek medical attention if irritation occurs. Remove contaminated clothing including

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footwear.

- 4.2 Most important symptoms and effects, both acute and delayed** Any relevant information can be found in other parts of this section and in sections 2 and 11.
- 4.3 Advice for doctor** Treat symptomatically (decontamination, vital functions).

SECTION 5 – FIRE FIGHTING MEASURES

- 5.1 Extinguishing media** Suitable extinguishing media:
Foam.
Dry chemical powder.
BCF (where regulations permit).
Carbon dioxide.
Water spray or fog - Large fires only.
- 5.2 Special hazards arising from the substance or mixture** Oxides of carbon and other possibly toxic fumes from fire. Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
- 5.3 Advice for firefighters** Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO₂), phenolics products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. May emit corrosive fumes.
Hazchem: •3Z

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.
- 6.2 Environmental precautions** Do not discharge into sewers or waterways and soil.
- 6.3 Methods and material for containment and cleaning up** Small or major spills should be absorbed with dry, inert filler (soil or sand) which then can be shoveled into appropriately labeled drums for disposal. Disposal of this material should be undertaken by a registered chemical disposal company.
Environmental hazard - contain spillage.
- 6.4 Reference to other sections** Relevant information in other sections must be considered. This applies for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7 – HANDLING & STORAGE

- 7.1 Precautions for safe handling** Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

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Protection against fire and explosion: The product is combustible. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

- 7.2 Conditions for safe storage**
Storage Requirements:
Store in a cool, dry area
Temperature Conditions:
Up to 40° C
Protection from weather:
Store undercover and away from frost and moisture
- 7.3 Specific end use(s)**
Once mixed with part A and applied, it produces a primed surface.
- 7.4 Regulations and standards (Australia):**
Classified as Hazardous Liquid which should be stored and handled in accordance with regulations

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
No known exposure limits

EMERGENCY LIMITS

Ingredient	TEEL-1	TEEL-2	TEEL-3
bisphenol A/ diglycidyl ether resin	90 mg/m ³	990 mg/m ³	5900 mg/m ³

- 8.2 Exposure controls**
General protection and hygiene measures:
General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating. Keep working clothes separately. Remove contaminated, soaked clothing immediately. Clean work areas regularly. **Please read Part B SDS**
Personal protection equipment:
Respiratory protection
Respiratory protection should be worn when there is a potential to exceed exposure limits or guidelines. If there are no applicable limits, wear respiratory protection when adverse effects like irritation or discomfort have been experienced (organic filter of sufficient capacity) or when indicated by your risk assessment process.
Eye protection
Safety glasses with side shields or chemical goggles. Full face respiratory may be required if exposure causes discomfort.
Hand protection
The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Protective gloves made of PVC, butyl rubber, neoprene or nitrile. Remember to also take into account of other chemical or processes when selecting glove type as well. For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
Skin protection
Overalls clothing
Other Information
Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.
- 8.3 Further information for system**
Ventilation is recommended under normal use conditions. State regulations on

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design and engineering measures speed and direction of airflow away from operators must be observed. Keep containers closed when not in use.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

9.1	Odour:	No test data available
	Odour Threshold	No test data available
	Colour:	Yellow / slightly Amber
	Physical State:	Liquid
	Flash Point:	Not determined
	Boiling Point:	Not determined
	Melting Point:	Not determined
	Specific Gravity:	1.1-1.4
	pH (5% solution):	Not determined
	Solubility in Water (g/L):	Not determined
	Flammability:	Not determined
	Lower Limit:	Not determined
	Higher Limit:	Not determined
	Vapour Pressure:	Not determined
	Vapour Density (Air = 1)	Not determined
9.2	Other information	None available

SECTION 10 – STABILITY AND REACTIVITY

10.1	Reactivity; Chemical stability;	If stored and handled in accordance with standard industrial practices not hazardous reactions are known. Unstable in the present of incompatible material.
-3	Possibility of hazardous reactions	
10.4	Conditions to avoid	Avoid short term temperatures above 300°C as potentially violent decomposition can happen at 350°C. Avoid prolonged exposure to temperatures over 250°C. Avoid all sources of ignition: heat, sparks, open flame. See SDS section 7 - Handling and storage.
10.5	Incompatible materials	Keep away from oxidizing agents, acids and alkalis and amines.
10.6	Hazardous decomposition products	Oxides of carbon and other possibly toxic fumes from fire.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Effects	bisphenol A/ diglycidyl ether resin, liquid: <i>Acute toxicity</i> dermal (rat) LD50: >800 mg/kg Oral (rat) LD50: 13447 mg/kg ECHA Registered Substances - Acute toxicity <i>Skin corrosion/irritation:</i> Brief contact may cause moderate irritation with local redness <i>Serious eye damage/eye irritation:</i> Eye (rabbit): 100mg - Mild.
	alkylglycidyl ether: <i>Acute toxicity</i> Oral (rat) LD50: 16896 mg/kg ECHA Registered Substances - Acute toxicity

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Skin corrosion/irritation:

Skin (guinea pig): sensitiser
Skin (human): Irritant
Skin (human): non- sensitiser
Skin (rabbit): moderate
Skin: Moderate

Serious eye damage/eye irritation:

Eye (rabbit): Mild.

Chronic Toxicity/Effects

Specific target organ systematic toxicity (single exposure)

Evaluation of available data suggest that this material is not a STOT-SE toxicant.

Specific target organ systematic toxicity (repeated exposure)

For the major component(s), except for skin sensitization, repeated exposure to low molecular weight epoxy resins of this type are not anticipated to cause significant adverse effects.

Genetic toxicity

Contains component(s) which were negative in some in vitro genetic toxicity studies and positive in others. Contains component(s) which were negative in animal genetic toxicity studies.

Carcinogenicity

BISPHENOL A/ DIGLYCIDYL ETHER RESIN, LIQUID

The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing

Reproductive toxicity

In animal studies of resins based on diglycidyl ether of bisphenol A have shown not to interfere with reproduction.

Teratogenicity

Resins based on diglycidyl ether of bisphenol A did not cause birth defect or other adverse effects on fetus when pregnant rabbits were exposed on their skin, or when pregnant rats or rabbits were exposed orally.

Long Term Effects:

Susceptible individuals may develop allergic reactions such as dermatitis or asthma like symptoms on a single significant skin exposure or may become sensitized to the material on repeated contact.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

bisphenol A/ diglycidyl ether resin, liquid:

Acute toxicity in fish

LC50 96hrs Fish 1.2mg/L

Acute toxicity in aquatic invertebrates

EC50 24hrs Crustacea

Acute toxicity in aquatic algae/plants

EC50 72hrs Algae or other aquatic plants 9.4mg/L

Chronic toxicity in aquatic invertebrates

NOEC 72hrs Algae or other aquatic plants 2.4mg/L

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Microorganisms/Effect on sludge	No Data available
Persistence and degradability	bisphenol A/ diglycidyl ether resin, liquid: Persistence: Water/Soil, HIGH Persistence: Air, HIGH
Bioaccumulative potential	bisphenol A/ diglycidyl ether resin, liquid: LOW (LogKOW = 2.6835)
Mobility in soil	bisphenol A/ diglycidyl ether resin, liquid: LOW (KOC = 51.43)
Additional Information	None

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Material Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Uncleaned packaging Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

DO NOT allow wash water from cleaning or process equipment to enter drains.

SECTION 14 – TRANSPORT INFORMATION

Transport Information

Classified as a Dangerous Good according to the Australian Code for the Transportation of Dangerous Goods by Road and Rail.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

- packagings;
- IBCs; or
- any other receptacle not exceeding 500 kg(L).

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

U.N. Number:	3082
DG Class:	9
EPG card:	N/A
Hazchem Code:	•3Z
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)
Packing Group:	III

Classification for SEA transport (IMO-IMDG)

U.N. Number:	3082
DG Class:	9

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Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)
Packing Group: III
Marine Pollutant: Yes, Epoxy Resin
EMS: F-A,S-F

Classification for AIR transport (IATA/ICAO)

U.N. Number: 3082
DG Class: 9
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether resin, liquid)
Packing Group: III

Label



SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed. For information on labeling please refer to section 2 of this document.

Poisons Schedule Number: 5

**Australian Inventory:
Controlled Schedule**

Listed
Not listed substances

Carcinogenic Substances:

SECTION 16 – OTHER INFORMATION

Safety Data Sheets are updated regularly. Please ensure you have a current copy. SDS can be obtained from our website: www.envirosystems.com.au

The SDS should be used to assist in the Risk Management. Many other factors determine whether the reported Hazards are risks in any given workplace.

Specific Risks may be determined by reference to various Exposure Scenarios, Scale of use, Frequency of use and current or available engineering controls must be considered.

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Emergency Telephone: Info Safe – 1800 638 556, Poisons Centre – 13112